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=> d his

(FILE 'HOME' ENTERED AT 14:51:20 ON 28 APR 2004)

FILE 'REGISTRY' ENTERED AT 14:51:33 ON 28 APR 2004

L1 STRUCTURE UPLOADED

L2 5 S L1

L3 86 S L1 SSS FULL

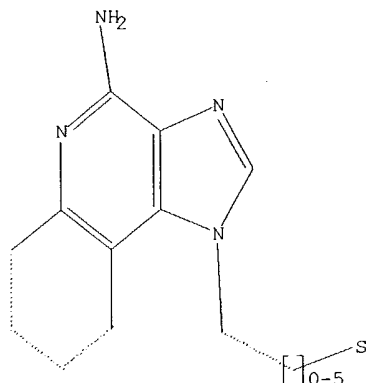
FILE 'CAPLUS' ENTERED AT 14:52:23 ON 28 APR 2004

L4 4 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> d 1-4 bib abs hitstr

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:434369 CAPLUS

DN 139:26620

TI Topical pharmaceuticals comprising an immune response modifier

IN Skwierczynski, Raymond D.; Busch, Terri F.; Gust-Heiting, Amy L.;

Fretland, Mary T.; Scholz, Matthew T.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 123 pp.

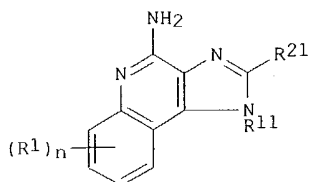
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003045391	A1	20030605	WO 2002-US38190	20021127
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2003199538	A1	20031023	US 2002-306019	20021127
PRAI	US 2001-340605P	P	20011129		
	US 2002-378452P	P	20020506		
OS	MARPAT 139:26620				
GI					



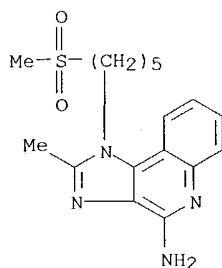
AB Pharmaceutical formulations comprise an immune response modifier (IRM) chosen from imidazoquinoline amines, imidazotetrahydroquinoline amines, imidazopyridine amines, and other heterocyclic fused ring derivs.; a fatty acid; and a hydrophobic, aprotic component miscible with the fatty acid are useful for the treatment of dermal associated conditions. Topical formulations containing, e.g., I are provided. In one embodiment, the topical formulations are advantageous for treatment of actinic keratosis, postsurgical scars, basal cell carcinoma, atopic dermatitis, and warts.

IT 434285-66-2 534568-82-6 534568-85-9  
534568-87-1 534568-88-2

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(topical pharmaceuticals comprising an immune response modifier)

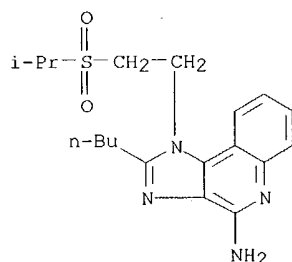
RN 434285-66-2 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[5-(methylsulfonyl)pentyl]-  
(9CI) (CA INDEX NAME)



RN 534568-82-6 CAPLUS

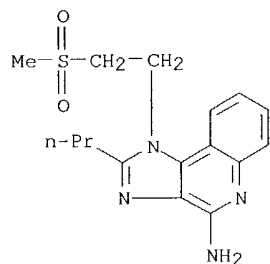
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-[(1-methylethyl)sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



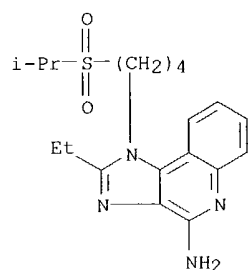
RN 534568-85-9 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[2-(methylsulfonyl)ethyl]-2-propyl-  
(9CI) (CA INDEX NAME)

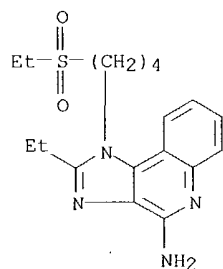
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RN 534568-87-1 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[(1-methylethyl)sulfonyl]butyl]- (9CI) (CA INDEX NAME)



RN 534568-88-2 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[4-(ethylsulfonyl)butyl]- (9CI) (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:417574 CAPLUS  
DN 139:929  
TI Toll-like receptor (TLR) pathway-based methods for identification of  
immune response modifier (IRM) compounds, and methods of use of such  
compounds  
IN Gorden, Keith B.; Qiu, Xiaohong; Tomai, Mark A.; Vasilakos, John P.  
PA 3M Innovative Properties Company, USA  
SO PCT Int. Appl., 66 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003043572	A2	20030530	WO 2002-US36758	20021114
	WO 2003043572	A3	20030724		

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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
 PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT,  
 TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,  
 RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,  
 CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
 PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
 NE, SN, TD, TG

US 2004014779 A1 20040122 US 2002-294935 20021114

PRAI US 2001-332412P P 20011116

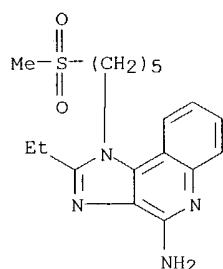
AB Methods for identifying a compound that activates a TLR-mediated cellular signaling pathway is disclosed. The method includes (a) exposing a TLR-pos. cell culture to a test compound and measuring a TLR-mediated cellular response; (b) exposing a TLR-neg. cell culture to a test compound and measuring a TLR-mediated cellular response; and (c) identifying the test compound as an IRM if the cellular response in the TLR-pos. cell culture is greater than the cellular response of the TLR-neg. cell culture. Methods of eliciting a TLR-mediated cellular response are also disclosed. Such methods include administration of an IRM compound to an IRM-responsive cell so that the IRM compds. affects at least one TLR-mediate cellular signaling pathway.

IT 434285-67-3

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (toll-like receptor pathway-based methods for identification of immune response modifier compds., and methods of use of such compds.)

RN 434285-67-3 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[5-(methylsulfonyl)pentyl]-  
 (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:414123 CAPLUS

DN 139:6869

TI Preparation of thioether substituted imidazoquinolinamines as cytokine biosynthesis inducers for treatment of viral and neoplastic disease.

IN Bonk, Jason D.; Dellaria, Joseph F.; Merrill, Bryon A.; Radmer, Matthew R.

PA 3M Innovative Properties Co., USA

SO U.S. Pat. Appl. Publ., 57 pp., Cont.-in-part of U.S. Ser. No. 13,059.

CODEN: USXXCO

DT Patent

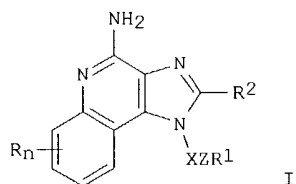
LA English

FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003100764	A1	20030529	US 2002-165222	20020607
	US 6667312	B2	20031223		
	US 2002173655	A1	20021121	US 2001-13059	20011206
	US 6664264	B2	20031216		
	WO 2003050121	A1	20030619	WO 2002-US18290	20020607

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,  
 KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
 MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK,  
 SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW,  
 AM, AZ, BY, KG  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,

CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 US 2004072858 A1 20040415 US 2003-675833 20030930  
 PRAI US 2000-254218P P 20001208  
 US 2001-13059 A2 20011206  
 US 2001-11921 A1 20011206  
 OS MARPAT 139:6869  
 GI



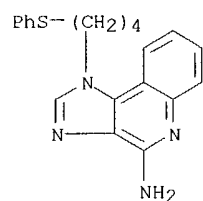
AB Title compds. [I; X = CHR3, CHR3A; A = alkyl, alkenyl; Z = S, SO, SO2; R = alkyl, alkoxy, OH, halo, CF3; R1 = alkyl, aryl, heteroaryl, heterocyclyl, alkenyl, R4Ar; Ar = aryl, heteroaryl, heterocyclyl; R2 = H, (substituted) alkyl, alkenyl, Ar, etc.; R3 = H, alkyl; R4 = alkylene, alkenylene; n = 0-4], were prepared. Thus, 2-butyl-1-[4-(methylthio)butyl]-1H-imidazo[4,5-c]quinolin-4-amine in CHCl3 was treated with 3-chloroperbenzoic acid over 15 min. followed by stirring at ambient temperature for 5 min. to give 2-butyl-1-[4-(methylsulfonyl)butyl]-1H-imidazo[4,5-c]quinolin-4-amine. The latter showed interferon and tumor necrosis factor induction in human blood cells with lowest effective concns. of 0.01 and 0.04  $\mu$ M, resp. I pharmaceutical compns. are claimed.

IT **434285-63-9P 434285-66-2P 534582-84-8P**

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of thioether substituted imidazoquinolinamines as cytokine biosynthesis inducers for treatment of viral and neoplastic disease)

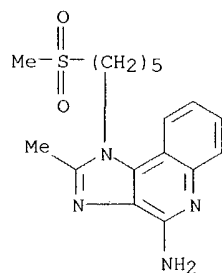
RN 434285-63-9 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(phenylthio)butyl]- (9CI) (CA INDEX NAME)

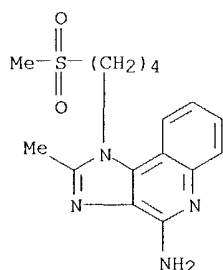


RN 434285-66-2 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[5-(methylsulfonyl)pentyl]- (9CI) (CA INDEX NAME)



RN 534582-84-8 CAPLUS  
 CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[4-(methylsulfonyl)butyl]-  
 (9CI) (CA INDEX NAME)



IT **434285-55-9P**, 2-Butyl-1-[4-(phenylthio)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-56-0P**, 2-Butyl-1-[2-(phenylthio)ethyl]-6,7,8,9-tetrahydro-1H-imidazo[4,5-c]quinolin-4-amine dihydrochloride **434285-57-1P**, 2-Butyl-1-[4-(phenylsulfonyl)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-58-2P**, 2-Butyl-1-[4-(methylthio)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-59-3P**, 2-Butyl-1-[4-(methylsulfonyl)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-60-6P**, 1-[2-(Phenylthio)ethyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-61-7P**, 1-[4-(Phenylsulfonyl)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-62-8P**, 1-[4-(Methylsulfonyl)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-64-0P**, 1-[4-(Methylthio)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-65-1P**, 2-Butyl-1-[5-(methylsulfonyl)pentyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-67-3P**, 2-Ethyl-1-[5-(methylsulfonyl)pentyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-68-4P**, 1-[5-(Methylsulfonyl)pentyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-69-5P**, 2-Hexyl-1-[5-(methylsulfonyl)pentyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-70-8P**, 2-(2-Methoxyethyl)-1-[5-(methylsulfonyl)pentyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-71-9P**, 2-Butyl-1-[5-(methylthio)pentyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-72-0P**, 2-Butyl-1-[5-(methylsulfinyl)pentyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-73-1P**, 2-Butyl-1-[3-(methylsulfonyl)propyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-74-2P**, 2-Butyl-1-[3-(phenylsulfonyl)propyl]-1H-imidazo[4,5-c]quinolin-4-amine **434285-75-3P**, 2-Butyl-1-[2-(phenylthio)ethyl]-6,7,8,9-tetrahydro-1H-imidazo[4,5-c]quinolin-4-amine **534568-82-6P**, 2-Butyl-1-[2-[(1-methylethyl)sulfonyl]ethyl]-1H-imidazo[4,5-c]quinoline-4-amine **534568-85-9P**, 1-[2-(Methylsulfonyl)ethyl]-2-propyl-1H-imidazo[4,5-c]quinolin-4-amine **534568-87-1P**, 2-Ethyl-1-[4-[(1-methylethyl)sulfonyl]butyl]-1H-imidazo[4,5-c]quinoline-4-amine **534568-88-2P**, 2-Ethyl-1-[4-(ethylsulfonyl)butyl]-1H-imidazo[4,5-c]quinoline-4-amine **534582-66-6P**, 1-[5-(Methylsulfonyl)pentyl]-2-propyl-1H-imidazo[4,5-c]quinolin-4-amine **534582-67-7P**, 2-Methyl-1-[3-(methylthio)propyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-68-8P**, 2-Methyl-1-[3-(methylsulfonyl)propyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-69-9P**, 2-Ethyl-1-[3-(methylthio)propyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-70-2P**, 2-Ethyl-1-[3-(methylsulfonyl)propyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-71-3P**, 2-Methyl-1-[4-(methylthio)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-72-4P**, 2-Methyl-1-[4-(methylsulfinyl)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-73-5P**, 2-Ethyl-1-[4-(methylthio)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-75-7P**, 2-Ethyl-1-[4-(methylsulfonyl)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-77-9P**, 1-[4-(Methylsulfonyl)butyl]-2-propyl-1H-imidazo[4,5-c]quinolin-4-amine **534582-79-1P**, 2-Butyl-1-[4-(methylsulfinyl)butyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-81-5P**, 2-Methyl-1-[2-(methylthio)ethyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-82-6P**, 2-Methyl-1-[2-(methylsulfonyl)ethyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-86-0P**, 2-Ethyl-1-[2-(methylsulfonyl)ethyl]-1H-imidazo[4,5-c]quinolin-4-amine **534582-89-3P**, 2-Butyl-1-[4-[(2,4-difluorophenyl)thio]butyl]-1H-imidazo[4,5-c]quinolin-4-amine

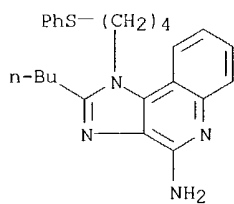
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 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological activity); PREP (Preparation); USES (Uses)

(preparation of thioether substituted imidazoquinolinamines as cytokine biosynthesis inducers for treatment of viral and neoplastic disease)

RN 434285-55-9 CAPLUS

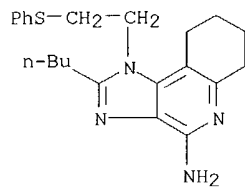
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-(phenylthio)butyl]- (9CI)  
 (CA INDEX NAME)

10696477



RN 434285-56-0 CAPLUS

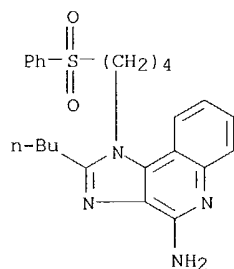
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-6,7,8,9-tetrahydro-1-[2-(phenylthio)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

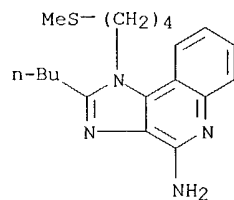
RN 434285-57-1 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-(phenylsulfonyl)butyl]- (9CI) (CA INDEX NAME)



RN 434285-58-2 CAPLUS

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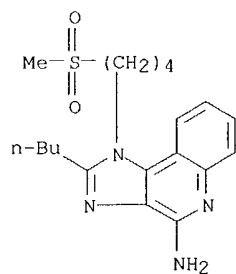


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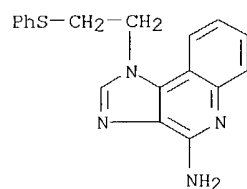
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-(methylsulfonyl)butyl]- (9CI) (CA INDEX NAME)



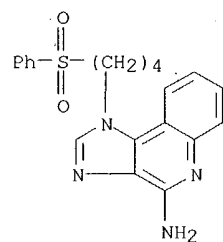
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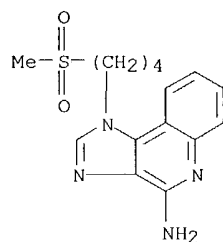
RN 434285-60-6 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[2-(phenylthio)ethyl]- (9CI) (CA  
INDEX NAME)



RN 434285-61-7 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(phenylsulfonyl)butyl]- (9CI) (CA  
INDEX NAME)

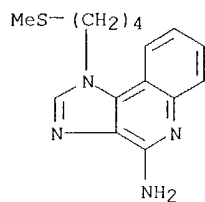


RN 434285-62-8 CAPLUS  
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INDEX NAME)



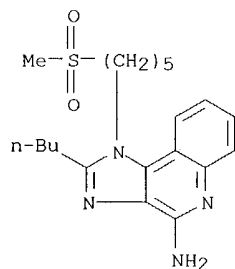
RN 434285-64-0 CAPLUS  
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INDEX NAME)

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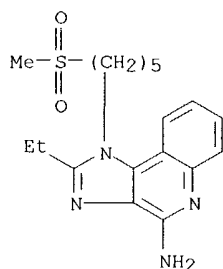
RN 434285-65-1 CAPLUS

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(9CI) (CA INDEX NAME)



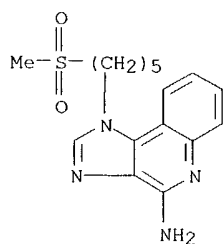
RN 434285-67-3 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[5-(methylsulfonyl)pentyl]-  
(9CI) (CA INDEX NAME)



RN 434285-68-4 CAPLUS

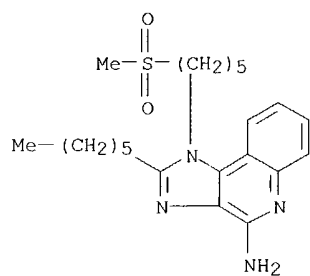
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(CA INDEX NAME)



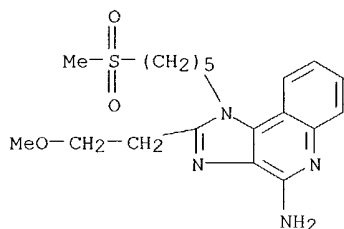
RN 434285-69-5 CAPLUS

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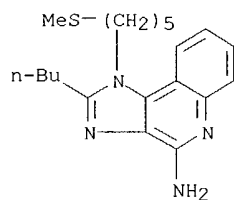
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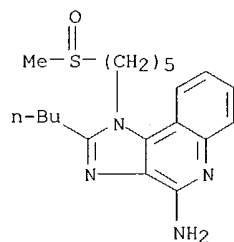
RN 434285-70-8 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-(2-methoxyethyl)-1-[5-(methylsulfonyl)pentyl]- (9CI) (CA INDEX NAME)



RN 434285-71-9 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[5-(methylthio)pentyl]- (9CI) (CA INDEX NAME)

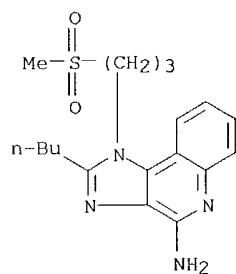


RN 434285-72-0 CAPLUS  
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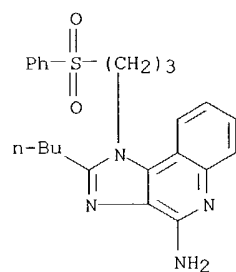


RN 434285-73-1 CAPLUS  
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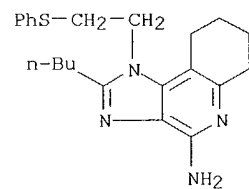
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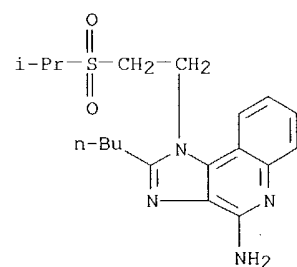
RN 434285-74-2 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[3-(phenylsulfonyl)propyl]-  
(9CI) (CA INDEX NAME)



RN 434285-75-3 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-6,7,8,9-tetrahydro-1-[2-(phenylthio)ethyl]- (9CI) (CA INDEX NAME)

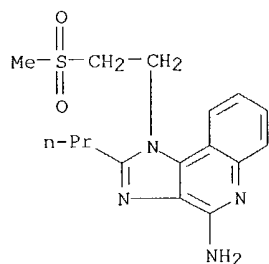


RN 534568-82-6 CAPLUS  
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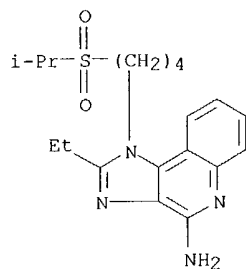


RN 534568-85-9 CAPLUS  
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(9CI) (CA INDEX NAME)

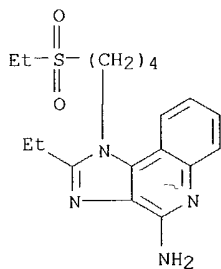
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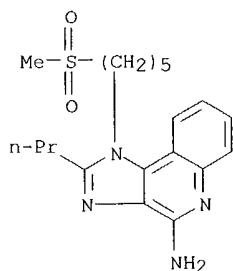
RN 534568-87-1 CAPLUS  
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RN 534568-88-2 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[4-(ethylsulfonyl)butyl]- (9CI) (CA INDEX NAME)



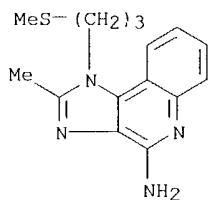
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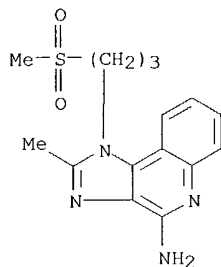
RN 534582-67-7 CAPLUS

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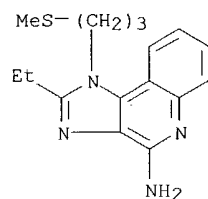
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(9CI) (CA INDEX NAME)



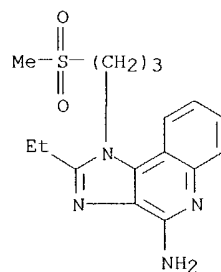
RN 534582-68-8 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[3-(methylsulfonyl)propyl]-  
(9CI) (CA INDEX NAME)



RN 534582-69-9 CAPLUS  
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(CA INDEX NAME)

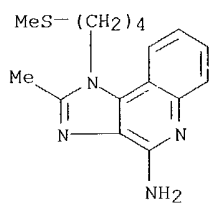


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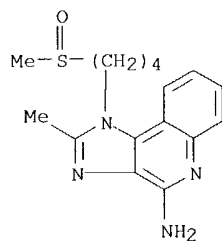
RN 534582-71-3 CAPLUS  
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(CA INDEX NAME)

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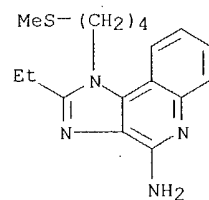
RN 534582-72-4 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[4-(methylsulfinyl)butyl]-  
(9CI) (CA INDEX NAME)



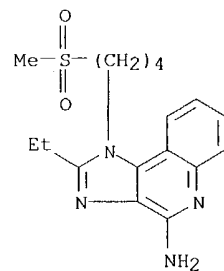
RN 534582-73-5 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[4-(methylthio)butyl]- (9CI)  
(CA INDEX NAME)



RN 534582-75-7 CAPLUS

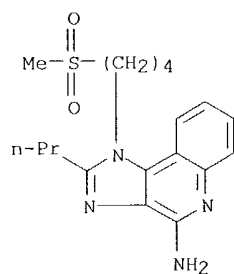
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[4-(methylsulfonyl)butyl]-  
(9CI) (CA INDEX NAME)



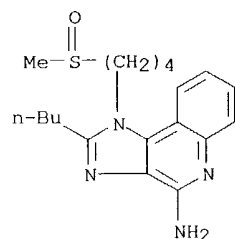
RN 534582-77-9 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(methylsulfonyl)butyl]-2-propyl-  
(9CI) (CA INDEX NAME)

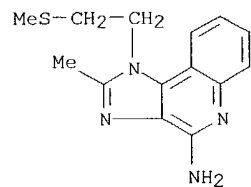
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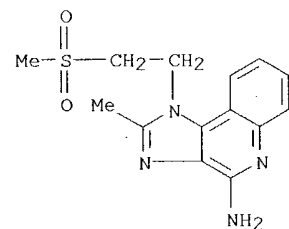
RN 534582-79-1 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-(methylsulfinyl)butyl]-  
(9CI) (CA INDEX NAME)



RN 534582-81-5 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[2-(methylthio)ethyl]- (9CI)  
(CA INDEX NAME)



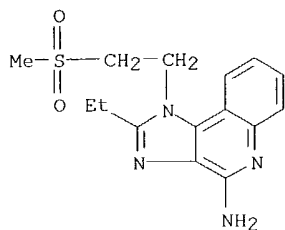
RN 534582-82-6 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[2-(methylsulfonyl)ethyl]-  
(9CI) (CA INDEX NAME)



RN 534582-86-0 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[2-(methylsulfonyl)ethyl]-  
(9CI) (CA INDEX NAME)

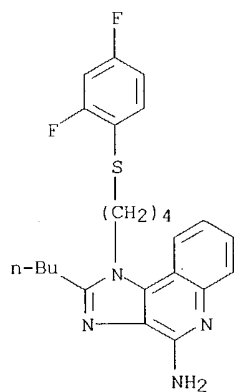


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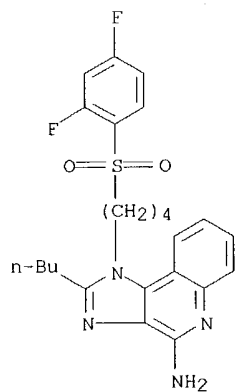
RN 534582-89-3 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-[(2,4-difluorophenyl)thio]butyl]- (9CI) (CA INDEX NAME)



RN 534582-91-7 CAPLUS

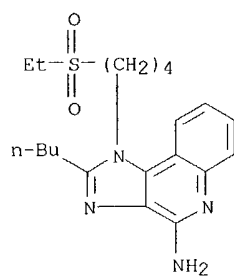
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-[(2,4-difluorophenyl)sulfonyl]butyl]- (9CI) (CA INDEX NAME)



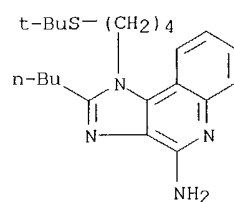
RN 534582-92-8 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-(ethylsulfonyl)butyl]- (9CI) (CA INDEX NAME)

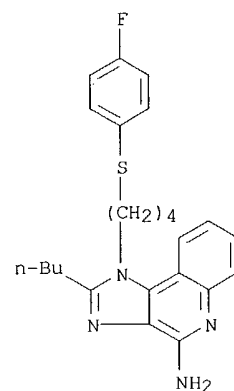
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RN 534582-93-9 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-[(1,1-dimethylethyl)thio]butyl]- (9CI) (CA INDEX NAME)

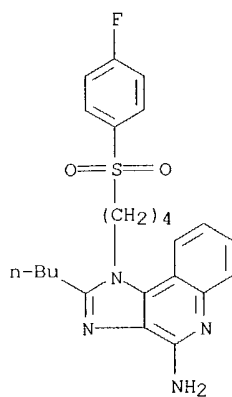


RN 534582-94-0 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-[(4-fluorophenyl)thio]butyl]- (9CI) (CA INDEX NAME)

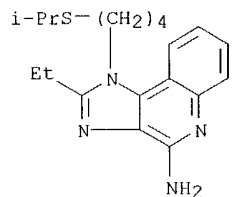


RN 534582-95-1 CAPLUS  
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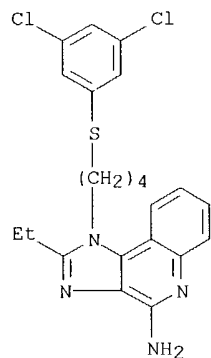
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RN 534582-96-2 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[4-[(1-methylethyl)thio]butyl]- (9CI) (CA INDEX NAME)

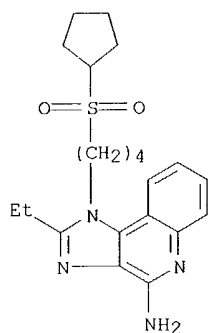


RN 534582-97-3 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-[(3,5-dichlorophenyl)thio]butyl]-2-ethyl- (9CI) (CA INDEX NAME)

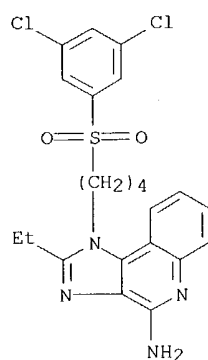


RN 534582-98-4 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(cyclopentylsulfonyl)butyl]-2-ethyl- (9CI) (CA INDEX NAME)

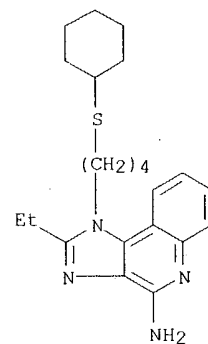
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RN 534582-99-5 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-[(3,5-dichlorophenyl)sulfonyl]butyl]-2-ethyl- (9CI) (CA INDEX NAME)

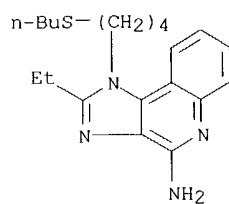


RN 534583-00-1 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(cyclohexylthio)butyl]-2-ethyl- (9CI) (CA INDEX NAME)

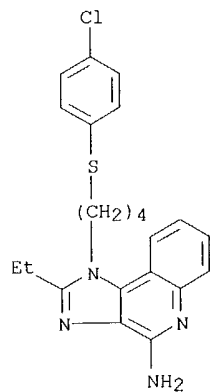


RN 534583-01-2 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(butylthio)butyl]-2-ethyl- (9CI) (CA INDEX NAME)

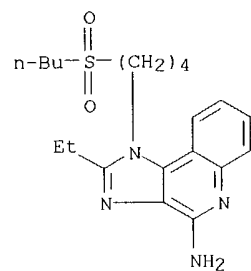
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RN 534583-02-3 CAPLUS  
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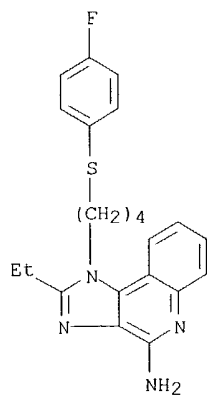


RN 534583-03-4 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(butylsulfonyl)butyl]-2-ethyl- (9CI) (CA INDEX NAME)

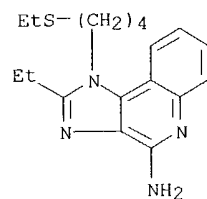


RN 534583-04-5 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[4-[(4-fluorophenyl)thio]butyl]- (9CI) (CA INDEX NAME)

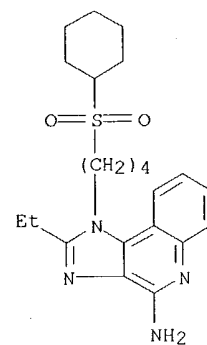
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RN 534583-05-6 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[4-(ethylthio)butyl]- (9CI)  
(CA INDEX NAME)

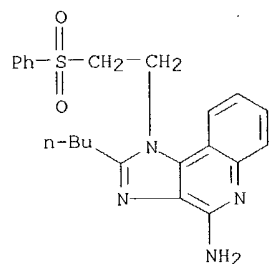


RN 534583-06-7 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(cyclohexylsulfonyl)butyl]-2-ethyl- (9CI) (CA INDEX NAME)

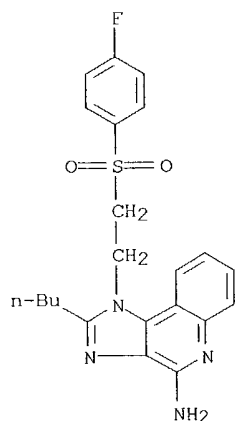


RN 534583-07-8 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-(phenylsulfonyl)ethyl]- (9CI) (CA INDEX NAME)

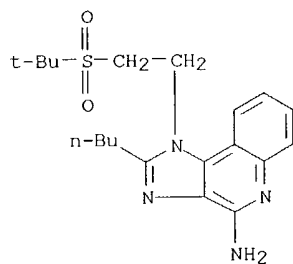
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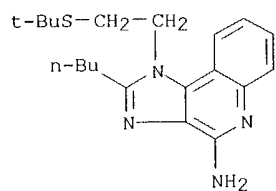
RN 534583-08-9 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-[(4-fluorophenyl)sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



RN 534583-09-0 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-[(1,1-dimethylethyl)sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



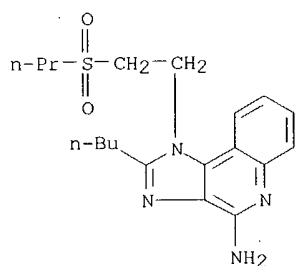
RN 534583-10-3 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-[(1,1-dimethylethyl)thio]ethyl]- (9CI) (CA INDEX NAME)



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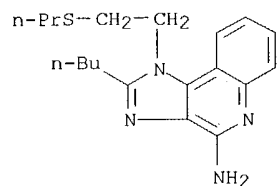
RN 534583-11-4 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-(propylsulfonyl)ethyl]-  
(9CI) (CA INDEX NAME)



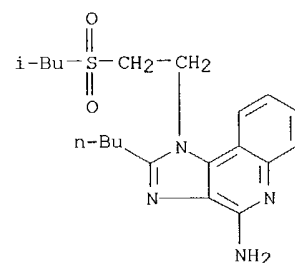
RN 534583-12-5 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-(propylthio)ethyl]- (9CI)  
(CA INDEX NAME)



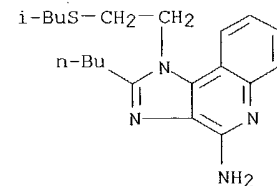
RN 534583-13-6 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-[(2-methylpropyl)sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



RN 534583-14-7 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-[(2-methylpropyl)thio]ethyl]- (9CI) (CA INDEX NAME)

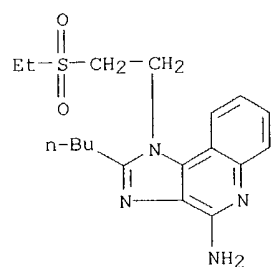


RN 534583-15-8 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-(ethylsulfonyl)ethyl]-  
(9CI) (CA INDEX NAME)

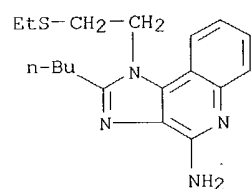


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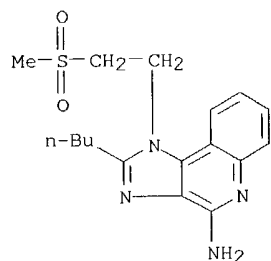
RN 534583-16-9 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-(ethylthio)ethyl]- (9CI)  
(CA INDEX NAME)



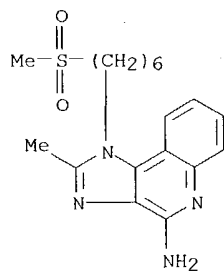
RN 534583-17-0 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-(methylsulfonyl)ethyl]- (9CI) (CA INDEX NAME)



RN 534583-46-5 CAPLUS

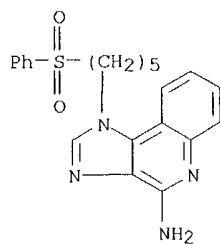
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[6-(methylsulfonyl)hexyl]- (9CI) (CA INDEX NAME)



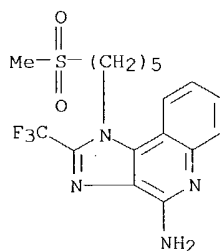
RN 534583-96-5 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[5-(phenylsulfonyl)pentyl]- (9CI)  
(CA INDEX NAME)

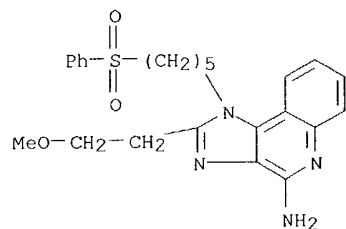
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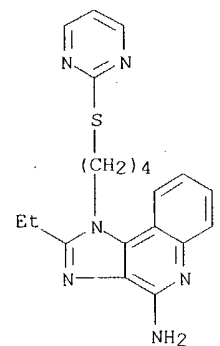
RN 534584-60-6 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[5-(methylsulfonyl)pentyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 534585-79-0 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-(2-methoxyethyl)-1-[5-(phenylsulfonyl)pentyl]- (9CI) (CA INDEX NAME)

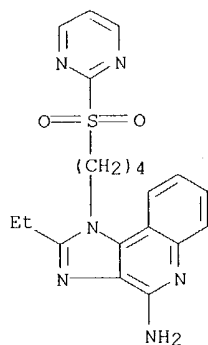


RN 534585-85-8 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[4-(2-pyrimidinylthio)butyl]- (9CI) (CA INDEX NAME)

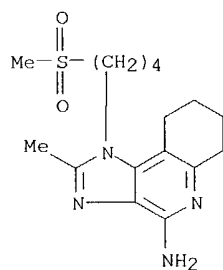


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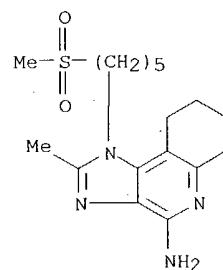
RN 534585-88-1 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-ethyl-1-[4-(2-pyrimidinylsulfonyl)butyl]- (9CI) (CA INDEX NAME)



RN 534585-90-5 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 6,7,8,9-tetrahydro-2-methyl-1-[4-(methylsulfonyl)butyl]- (9CI) (CA INDEX NAME)

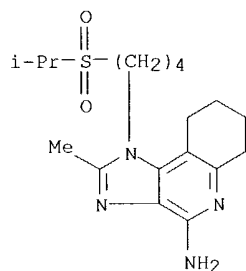


RN 534585-92-7 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 6,7,8,9-tetrahydro-2-methyl-1-[5-(methylsulfonyl)pentyl]- (9CI) (CA INDEX NAME)

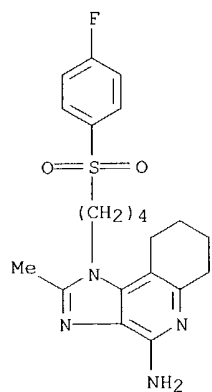


RN 534585-94-9 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 6,7,8,9-tetrahydro-2-methyl-1-[4-[(1-methylethyl)sulfonyl]butyl]- (9CI) (CA INDEX NAME)

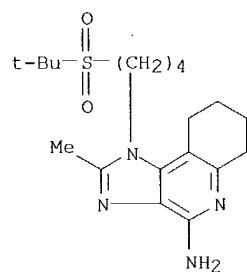
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RN 534585-96-1 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-[(4-fluorophenyl)sulfonyl]butyl]-6,7,8,9-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)

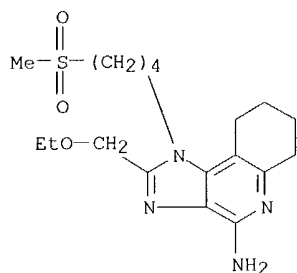


RN 534585-98-3 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-[(1,1-dimethylethyl)sulfonyl]butyl]-6,7,8,9-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)

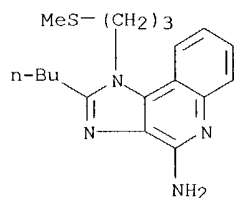


RN 534588-03-9 CAPLUS  
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-(ethoxymethyl)-6,7,8,9-tetrahydro-1-[4-(methylsulfonyl)butyl]- (9CI) (CA INDEX NAME)

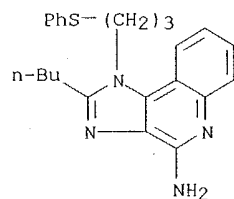
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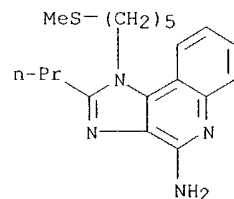
IT **434286-34-7P**, 2-Butyl-1-[3-(methylthio)propyl]-1H-imidazo[4,5-c]quinolin-4-amine **434286-35-8P**, 2-Butyl-1-[3-(phenylthio)propyl]-1H-imidazo[4,5-c]quinolin-4-amine **534586-60-2P**, 1-[5-(Methylthio)pentyl]-2-propyl-1H-imidazo[4,5-c]quinoline-4-amine **534586-86-2P**, 1-[4-(Methylthio)butyl]-2-propyl-1H-imidazo[4,5-c]quinolin-4-amine **534587-09-2P**, 2-Butyl-1-[2-(methylthio)ethyl]-1H-imidazo[4,5-c]quinolin-4-amine **534587-17-2P**, 2-Methyl-1-[6-(methylthio)hexyl]-1H-imidazo[4,5-c]quinolin-4-amine  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of thioether substituted imidazoquinolinamines as cytokine biosynthesis inducers for treatment of viral and neoplastic disease)  
 RN 434286-34-7 CAPLUS  
 CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[3-(methylthio)propyl]- (9CI)  
 (CA INDEX NAME)



RN 434286-35-8 CAPLUS  
 CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[3-(phenylthio)propyl]- (9CI)  
 (CA INDEX NAME)



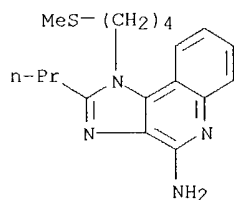
RN 534586-60-2 CAPLUS  
 CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[5-(methylthio)pentyl]-2-propyl- (9CI) (CA INDEX NAME)



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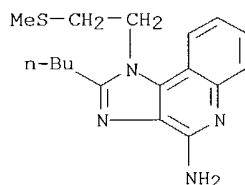
RN 534586-86-2 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(methylthio)butyl]-2-propyl- (9CI)  
(CA INDEX NAME)



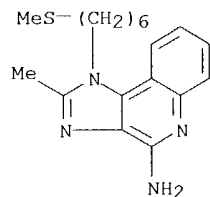
RN 534587-09-2 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[2-(methylthio)ethyl]- (9CI)  
(CA INDEX NAME)



RN 534587-17-2 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[6-(methylthio)hexyl]- (9CI)  
(CA INDEX NAME)



L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:449683 CAPLUS

DN 137:20377

TI Preparation of 1-(alkyl- or arylthioalkyl) imidazo[4,5-c]quinoline-4-  
amines and analogs as cytokine biosynthesis inducers

IN Dellaria, Joseph F.; Merrill, Bryon A.; Radmer, Matthew R.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046192	A2	20020613	WO 2001-US46697	20011206
	WO 2002046192	A3	20030213		
W:	AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU				
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CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
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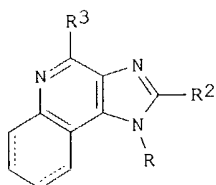
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US 2003065005	A1	20030403	US 2001-11921	20011206
US 6664260	B2	20031216		
EP 1341791	A2	20030910	EP 2001-987297	20011206

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EE 200300275	A	20031015	EE 2003-275	20011206
NO 2003002595	A	20030606	NO 2003-2595	20030606
US 2004072858	A1	20040415	US 2003-675833	20030930

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 US 2001-11921 A1 20011206  
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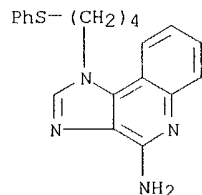
AB Title compds. [(un)substituted I; R = Z2Z1R1; R1 = alk(en)yl, heterocyclyl, (hetero)aryl, etc.; R2 = H, alk(en)yl, heterocyclyl, (hetero)aryl, etc.; R3 = NH2; Z1 = SOO-2; Z2 = alkylene; dashed lines = optional addnl. bonds], useful as immune response modifiers, were prepared. Thus, 4-chloro-3-nitroquinoline was aminated by H2N(CH2)4OH and O-protected product reduced to give, after cyclocondensation with BuC(OMe)3, I (R2 = Bu, dashed lines = bonds) [II; R = (CH2)4OSiCMe2CMe3, R3 = H] which was converted in 4 steps to II [R = (CH2)4SPh, R3 = NH2]. Data for biol. activity of I were given.

IT 434285-63-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of 1-(alkyl- or arylthioalkyl) imidazo[4,5-c]quinoline-4-amines and analogs as cytokine biosynthesis inducers)

RN 434285-63-9 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(phenylthio)butyl]- (9CI) (CA INDEX NAME)



IT 434285-55-9P 434285-56-0P 434285-57-1P  
 434285-58-2P 434285-59-3P 434285-60-6P  
 434285-61-7P 434285-62-8P 434285-64-0P  
 434285-65-1P 434285-66-2P 434285-67-3P  
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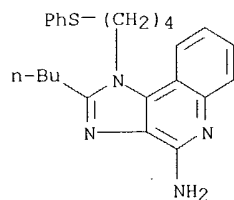
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1-(alkyl- or arylthioalkyl) imidazo[4,5-c]quinoline-4-amines and analogs as cytokine biosynthesis inducers)

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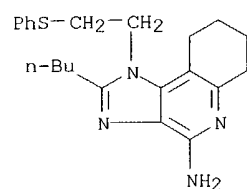
RN 434285-55-9 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-(phenylthio)butyl]- (9CI)  
(CA INDEX NAME)



RN 434285-56-0 CAPLUS

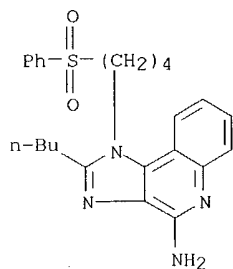
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-6,7,8,9-tetrahydro-1-[2-(phenylthio)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

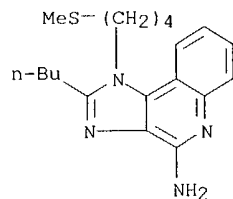
RN 434285-57-1 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-(phenylsulfonyl)butyl]- (9CI) (CA INDEX NAME)



RN 434285-58-2 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[4-(methylthio)butyl]- (9CI)  
(CA INDEX NAME)



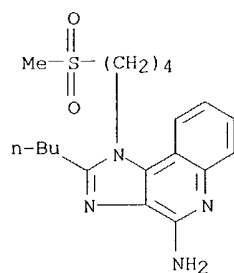
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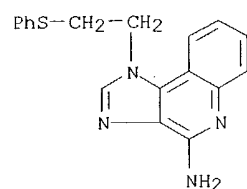
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(9CI) (CA INDEX NAME)



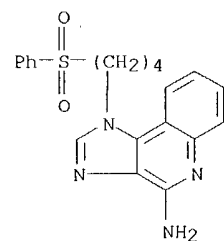
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CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[2-(phenylthio)ethyl]- (9CI) (CA INDEX NAME)



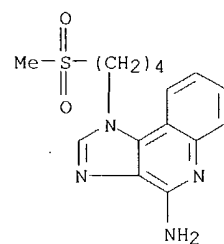
RN 434285-61-7 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(phenylsulfonyl)butyl]- (9CI) (CA INDEX NAME)



RN 434285-62-8 CAPLUS

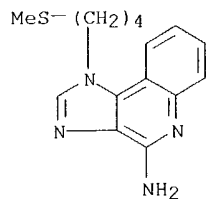
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[4-(methylsulfonyl)butyl]- (9CI) (CA INDEX NAME)



RN 434285-64-0 CAPLUS

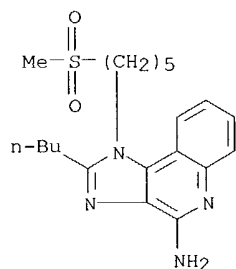
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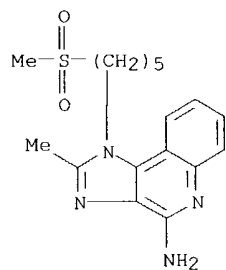
RN 434285-65-1 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[5-(methylsulfonyl)pentyl]-  
(9CI) (CA INDEX NAME)



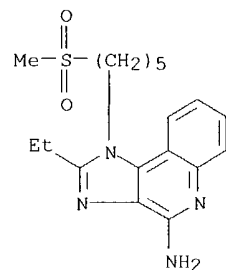
RN 434285-66-2 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-methyl-1-[5-(methylsulfonyl)pentyl]-  
(9CI) (CA INDEX NAME)



RN 434285-67-3 CAPLUS

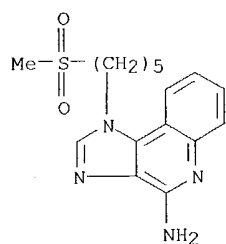
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(9CI) (CA INDEX NAME)



RN 434285-68-4 CAPLUS

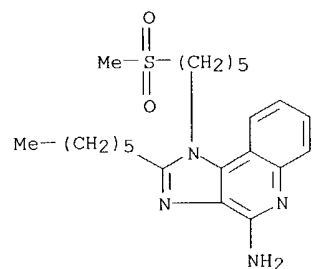
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 1-[5-(methylsulfonyl)pentyl]- (9CI)  
(CA INDEX NAME)

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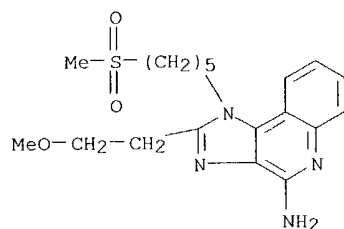
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(9CI) (CA INDEX NAME)



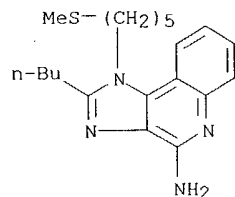
RN 434285-70-8 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-(2-methoxyethyl)-1-[5-(methylsulfonyl)pentyl]- (9CI) (CA INDEX NAME)



RN 434285-71-9 CAPLUS

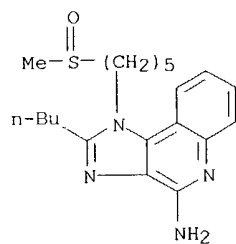
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[5-(methylthio)pentyl]- (9CI)  
(CA INDEX NAME)



RN 434285-72-0 CAPLUS

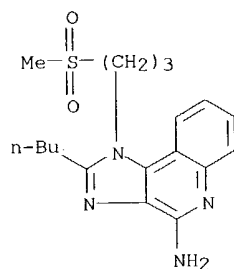
CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[5-(methylsulfinyl)pentyl]-  
(9CI) (CA INDEX NAME)

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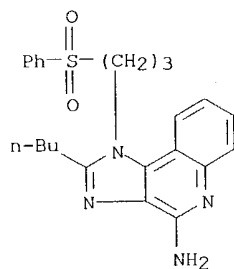
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CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[3-(methylsulfonyl)propyl]-  
(9CI) (CA INDEX NAME)



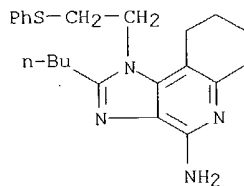
RN 434285-74-2 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[3-(phenylsulfonyl)propyl]-  
(9CI) (CA INDEX NAME)



RN 434285-75-3 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-6,7,8,9-tetrahydro-1-[2-(phenylthio)ethyl]- (9CI) (CA INDEX NAME)



IT 434286-34-7P 434286-35-8P

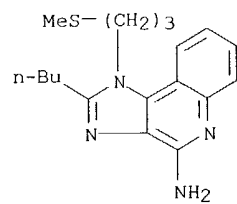
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation of 1-(alkyl- or arylthioalkyl) imidazo[4,5-c]quinoline-4-amines  
and analogs as cytokine biosynthesis inducers)

RN 434286-34-7 CAPLUS

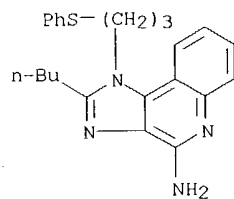
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CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[3-(methylthio)propyl]- (9CI)  
(CA INDEX NAME)



RN 434286-35-8 CAPLUS

CN 1H-Imidazo[4,5-c]quinolin-4-amine, 2-butyl-1-[3-(phenylthio)propyl]- (9CI)  
(CA INDEX NAME)



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